CPP50121 Diploma of Surveying

Release 1

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Modification History

Release 1 This qualification first released with CPP Property Services Training Package Release 12.0.

Supersedes and is equivalent to CPP50116 Diploma of Surveying.

Qualification Description

This qualification reflects the role of skilled surveying technicians who hold advanced surveying skills and perform duties in the field involving the performance of precise measurements and setting out of structures using specialised surveying equipment. In the office they map onsite measurements and draft plans.

Surveying skills are applied in a range of industry contexts, including town planning, civil construction, mining, engineering, agriculture and defence.

Cadastral surveying must be undertaken under the supervision of a registered surveyor. Relevant state and territory regulatory authorities should be consulted to confirm those requirements.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

This qualification is suitable for an Australian traineeship pathway.

Entry Requirements

Entry points to undertake the CPP50121 Diploma of Surveying are:

- CPP40216 Certificate IV in Surveying

or

CPP41721 Certificate IV in Surveying and Spatial Information Services (Surveying) or

- demonstrated relevant vocational experience, skills and knowledge commensurate with the scope of work covered in the CPP41721 Certificate IV in Surveying and Spatial Information Services (Surveying).

Packaging Rules

To achieve this qualification, competency must be demonstrated in 16 units of competency consisting of:

- 8 core units
- 8 elective units.

Electives are to be selected as follows:

- 8 units from the electives listed below

or

- up to 2 of the 8 elective units may be selected from any current training package provided they contribute to a valid, industry-supported vocational outcome, maintain the integrity of the Australian Qualifications Framework (AQF) level of this qualification and do not duplicate the outcome of another unit used to achieve this qualification.

Core Units

CPPSSI5047	Conduct GNSS surveys
CPPSSI5048	Conduct engineering surveys
CPPSSI5053	Perform complex surveying computations
CPPSSI5054	Perform geodetic surveying computations
CPPSSI5057	Conduct precision surveys
CPPSSI5058	Conduct geodetic surveys
CPPSSI5061	Survey subsurface utility information
CPPSSI5065	Design basic engineering structures

Elective Units

AHCLPW410	Produce maps for land management purposes
BSBPMG430	Undertake project work
CPPSSI5031	Develop a spatial data collection plan
CPPSSI5032	Capture new spatial data
CPPSSI5040	Source, collate and interpret spatial data
CPPSSI5044	Develop subdivision survey designs
CPPSSI5046	Set out roads and stormwater systems
CPPSSI5050	Produce survey drawings
CPPSSI5051	Conduct identification surveys

Artibus Innovation

CPPSSI5052   Integrate surveying datasets

CPPSSI5060   Develop spreadsheets for spatial data

CPPSSI5062   Conduct photogrammetric mapping

CPPSSI5064   Conduct complex spatial data analysis

CPPSSI6021   Conduct open pit mine surveys

CPPSSI6022   Produce mine drawings

CPPSSI6033   Conduct underground mine surveys

CPPSSI6037   Conduct advanced remote sensing analysis

NWPHYS001   Identify and analyse information technology for hydrographic surveys

NWPHYS002   Interpret and analyse science principles for hydrographic surveying

NWPHYS003   Manage and analyse water levels and flows

NWPHYS004   Manage hydrographic surveying projects

NWPHYS005   Use alternate positioning systems to gather data

NWPHYS006   Use remote sensing for hydrographic surveying

NWPHYS007   Use underwater acoustics to map waterways

MEM23004A   Apply technical mathematics

PSPLND002   Compile and check survey plans

Qualification Mapping Information

CPP50121 Diploma of Surveying supersedes and is equivalent to CPP50116 Diploma of Surveying.

Links

The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at -
https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205df cf13d9b.